

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, in the application:

Listing of Claims:

1. (currently amended) In a network including a router and an optical cross-connect system (OXC), a method for responding to a failure, the method comprising:

detecting the failure in the router;

sending a signal from an input protection port of the router to the OXC, where the signal indicates the failure;

causing an input working port of the OXC to ~~directly~~ connect to the ~~the~~ [[an]] input protection port of the router in response to detection of the signal; and

transmitting data from the router to the OXC via the input protection port.

2. (currently amended) The method of claim 1, where the sending further comprises:

sending the signal as an in-band signal, ~~from the input protection port of the router,~~ to the OXC.

3. (previously presented) The method of claim 2, where the sending an in-band signal to the OXC further comprises:

sending a Synchronous Optical Network (SONET) signal to the OXC.

4. (currently amended) The method of claim 1, where the sending further comprises:

sending the signal as an out-of-band signal, ~~from the input protection port of the router,~~ to the OXC.

5. (previously presented) The method of claim 4, where the sending an out-of-band signal comprises:

addressing the out-of-band signal to an Internet Protocol address associated with the OXC.

6. (currently amended) A method for responding to a failure in a network including a router and an optical cross-connect system (OXC), the method comprising:

receiving a signal at the OXC from an input protection port of the router, the signal indicating a failure of a working port in the router; and

connecting the ~~[[an]]~~ input protection port of the router ~~directly~~ to an input working port of the OXC in response to receiving the signal.

7. (currently amended) The method of claim 6, where the receiving further comprises:

receiving an in-band signal, from the input protection port of the router, at the OXC.

8. (previously presented) The method of claim 7, where the receiving an in-band signal at the OXC comprises:

receiving a Synchronous Optical Network (SONET) signal at the OXC.

9. (currently amended) The method of claim 6, where the receiving further comprises:

receiving an out-of-band signal, ~~from the input protection port of the router,~~
at the OXC.

10. (previously presented) The method of claim 9, where the receiving an out-of-band signal further comprises:

addressing the out-of-band signal to an Internet Protocol address associated with the OXC.

11. (currently amended) An optical cross-connect system comprising:
a spare port to transmit low priority data to or from a router; and
a working port to transmit high priority data to or from a primary router,
where the working port is connected to the router in response to a failure of the primary router, and where the transmission of low priority data to or from the router is preempted by the transmission of the high priority data to or from the router, in response to the failure of the primary router.

12. (previously presented) The optical cross-connection system of claim 11, where the working port is connected to the router in response to receiving an in-band signal from the router.

13. (previously presented) The optical cross connection system of claim 12, where the working port is connected to the router in response to receiving a Synchronous Optical Network (SONET) signal from the router.

14. (previously presented) The optical cross-connection system of claim 11, where the working port is connected to the router in response to receiving an out-of-band signal from the router.

15. (currently amended) A communications network for transmitting data, the ~~communications~~ communication network comprising:

 a router for receiving the data from a terminal, the router comprising:

 an input working port to receive the data from the terminal;

and

 an input protection port to receive the data from the terminal in response to a failure of the input working port; and

 an optical cross-connect system (OXC) to receive the data from the router, the ~~OXC optical cross-connect~~ system comprising an input working port, where the input working port of the OXC is ~~directly~~ connected to the input protection port of the router in response to a signal, indicating the failure of the input working port of

the router, and received from the input protection port of the router indicating the failure of the input working port of the router.

16. (previously presented) The communications network of claim 15, where the router transmits a signal indicating the failure to the OXC, the signal causing the OXC to connect the input protection port directly to the input working port of the OXC.

17. (previously presented) The communications network of claim 16, where the signal is an in-band signal.

18. (previously presented) The communications network of claim 17, where the in-band signal is a Synchronous Optical Network (SONET) signal.

19. (previously presented) The communications network of claim 16, where the signal is an out-of-band signal.

20. (previously presented) The communications network of claim 19, where the out-of-band signal is addressed to an Internet Protocol address associated with the OXC.